CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/WNo 02/LR/CEMENT/2014-15 Date: 04.08.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. Lokanatha Reddy, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC drain at Purenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division , BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YSD/PR/395/2014-15 Dated: 01.08.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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Job No: CTCE/BBMP/W.No.02/LR/SAND/2014-15 : 04.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.

Name of Work : Construction of RCC drain at Puttenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division , BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/395/2014-15 Dated:01.08.2014

Date of Testing : 04.08.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	4.80	4.80	95.2	90-100
2.36	198	9.90	14.70	85.3	75-100
1.18	452	22.60	37.30	62.7	55-90
600 Micron	420	21.00	58.30	41.7	35-59
300 Micron	498	24.90	83.20	16.8	8-30
150 Micron	256	12.80	96.00	4.0	

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Lab No: CTCE/BBMP/W.No.02/LR/AGG/2014-15 : 04.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.

Name of Work : Construction of RCC drain at Puttenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division , BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/395/2014-15 Dated: 01.08.2014

Date of Testing : 04.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.98	3.98	96.02	95-100
20	16248	64.99	68.97	31.03	30-70
10	4985	19.94	88.91	11.09	10-35
4.75	2510	10.04	98.95	1.05	

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Ref No. CTCE/BBMP/WCNo.02/TR/AGG/2014-15 : 04.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Mr. Lokanatha Reddy,** Contractor, Bangalore.

Name of Work : Construction of RCC drain at Parrenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division , BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/395/2014-15 Dated: 04.08.2014

Date of Testing : 04.08.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms = 5000

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	3.96	4.0	96.04	95-100
10	3135	62.70	66.7	33.34	25-55
4.75	1542	30.84	97.5	2.50	

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Job No: CTCE/BBMP/W.No.02/LR /STRDL/2014-15 06.08.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Mr. Lokanatha Reddy, Contractor, Bangalore.
Name of the Work	:	Construction of RCC drain at Puttenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division , BBMP, Bangalore.
Reference	:	BBMP/AEE/YSD/PR/395/2014-15 Dated: 01.08.2014
Date of Test	:	06.08.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	546	12.80	O.K	O.K

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Job No: CTCE/BBMP/W No.02/LR/KRIDL/2014-15 06.08.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Mr. Lakamutha Reddy, Contractor, Bangalore.
Name of the Work	:	Construction of RCC drain at Puttenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YSD/PR/395/2014-15 Dated: 01.08.2014
Date of Test	:	06.08.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	548	13.05	O.K	O.K

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Job No: CTCE/BBMP/WNo.02/LR /KRIDL/2014-15 06.08.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Lokanatha Reddy**, Contractor, Bangalore.
Name of the Work	:	Construction of RCC drain at Puttenahalli KHB Colony in Ward No.02 of Yelahanka Sub Division , BBMP, Bangalore.
Reference	:	BBMP/AEE/YSD/PR/395/2014-15 Dated: 01.08.2014
Date of Test	:	06.08.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	550	13.30	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No:CTCE/BBMP/WN102/LR/CUBE/2014-15 18.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Mr. Lokanatha Reddy**, Contractor, Bangalore.
Name of the work	: Construction of RCC drain at Puttenahalli KHB Colony in Ward No.102 of Yelahanka Sub Division , BBMP, Bangalore.
Reference	: BBMP/AEE/YSD/PR/395/2014-15 Dated: 01.08.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS:516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.08.2014	18.08.2014	8.155	352.3	15.66
2	11.08.2014	18.08.2014	8.268	369.5	16.42
3	11.08.2014	18.08.2014	8.396	388.7	17.28

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